3.0mmx1.5mm SMD CHIP LED LAMP

Part Number: KPL-3015PBC-Z-SI Blue

PRELIMINARY SPEC



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 3.0mmx1.5mm SMT LED, 1.4mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- RoHS COMPLIANT.

Description

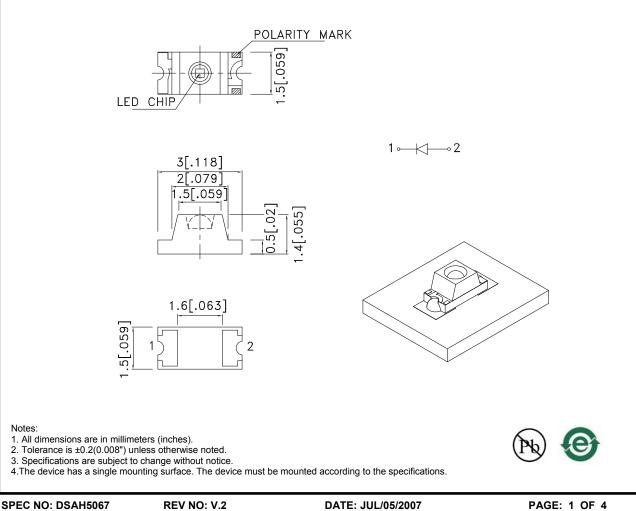
The Blue source color devices are made with InGaN Light Emitting Diode.

Static electricity and surge damage the LEDS.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions



APPROVED: WYNEC

CHECKED: Allen Liu

DATE: JUL/05/2007 DRAWN: Y.L.LI PAGE: 1 OF 4 ERP: 1203006761

Selection Guide

Part No. Dice		Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]	
			Min.	Тур.	201/2	
KPL-3015PBC-Z-SI	Blue (InGaN)	WATER CLEAR	480	850	70°	

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. Luminous intensity/ luminous Flux: +/-15%

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Blue	458		nm	IF=20mA	
λD [1]	Dominant Wavelength	Blue	465		nm	IF=20mA	
Δλ1/2	Spectral Line Half-width	Blue	22		nm	IF=20mA	
С	Capacitance	Blue	110		pF	VF=0V;f=1MHz	
VF [2]	Forward Voltage	Blue	3.2	3.7	V	I⊧=20mA	
lr	Reverse Current	Blue		10	uA	Vr=5V	

Notes:

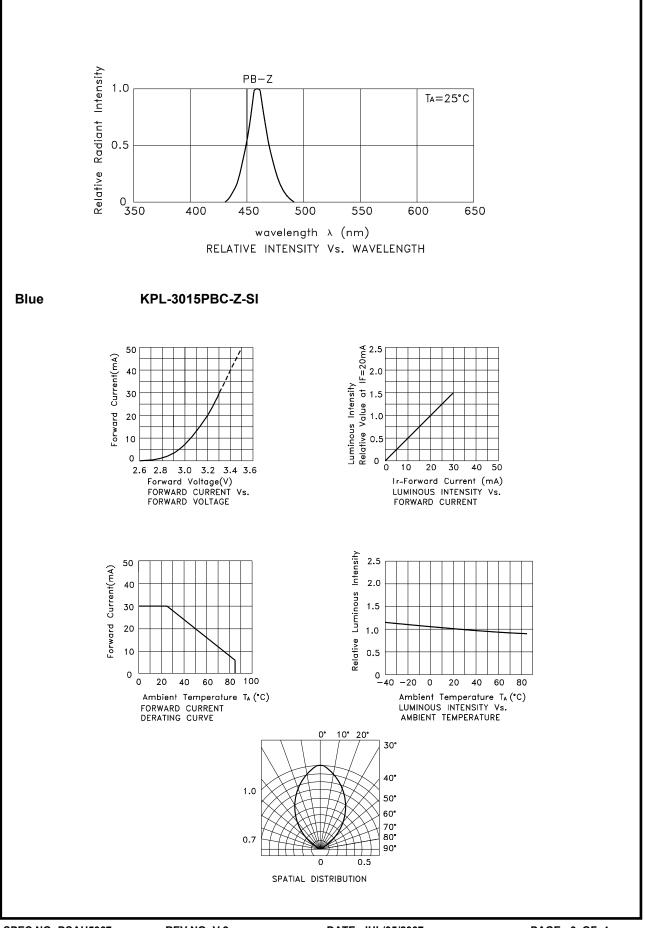
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

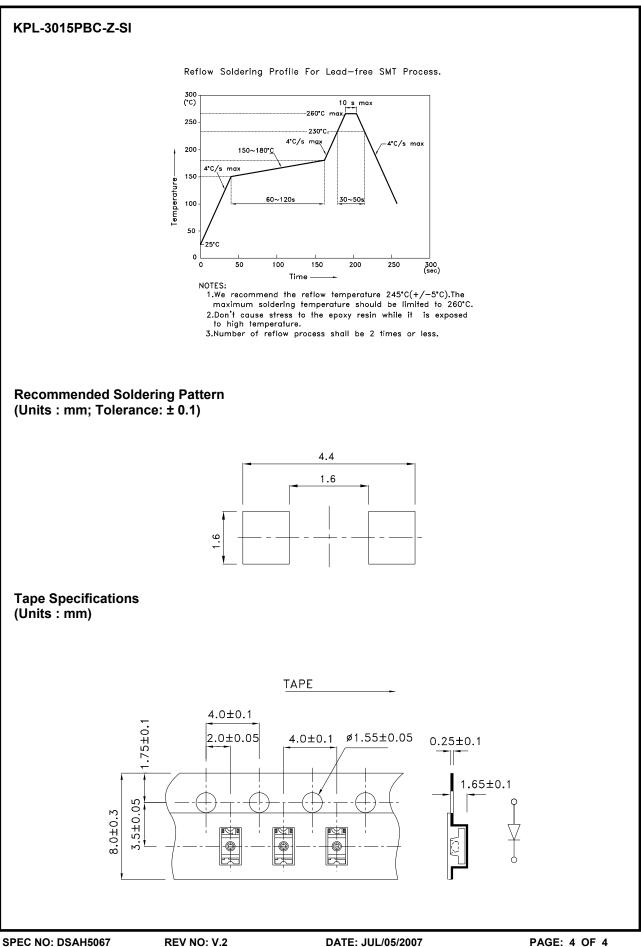
Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units		
Power dissipation	111	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	100	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.





REV NO: V.2 CHECKED: Allen Liu DATE: JUL/05/2007 DRAWN: Y.L.LI PAGE: 4 OF 4 ERP: 1203006761